



--The inventor has found, after long research work, a particular combination of thickening polymers which make it possible to overcome the problems of fluidization and alteration the properties of using the gel which are disclosed above.



The subject of the present invention is consequently cosmetic compositions containing in a cosmetically acceptable carrier:

- (a) at least one fixing film-forming polymer chosen from branched block copolymers comprising, as principal monomers, (1) at least one C<sub>1-20</sub> alkyl acrylate and/or at least one N-mono- or N,N-di-(C<sub>2-12</sub>) alkylacrylamide or alkylmethacrylamide, and (2) acrylic acid and/or methacrylic acid,
- (b) at least one thickening agent chosen from homopolymers and copolymers based on acrylic acid or methacrylic acid, which are cross-linked or non-cross-linked, and
- (c) at least one co-thickening agent chosen from non-cellulosic thickening polymers different from thickening agent (b).--

Page 3, replace the third and fourth paragraphs as follows:



--The branched block copolymers described above are provided, for example, under the names EX-SDR-26<sup>®</sup> and EX-SDR-45<sup>®</sup> by GOODRICH.

These copolymers have the following composition:

acrylic acid - 26 to 36 mol%, n-butyl acrylate - 27.5 to 30.5 mol%, methacrylic acid - 33.3 to 45.3 mol%, and allyl methacrylate - 0.48 to 0.92 mol%.--



--The above fixing film-forming polymers are preferably used in anionic form, that is to say in the form of a salt resulting from the partial or complete neutralization of the acrylic or methacrylic acid groups. The neutralizing agent may be any physiologically acceptable inorganic or organic base which does not interfere in a--

Page 4, replace the first through fourth full paragraphs as follows:



--The cosmetic compositions of the present invention generally contain between 0.1 and 10% by weight, and preferably between 1 and 5% by weight, of fixing film-forming polymer relative to the total weight of the final composition.

The thickening system used in the cosmetic compositions of the present invention necessarily comprises:

- (b) at least one thickening polymer based on acrylic acid or methacrylic acid, and
- (c) at least one noncellulosic thickening polymer (co-thickening agent) different from the thickening polymer (b).

The thickening polymer (b) is chosen from poly(acrylic acid), poly(methacrylic acid), copolymers of acrylic acid and methacrylic acid, copolymers comprising units derived from acrylic acid and/or methacrylic acid as well as units derived from other acrylic or vinyl monomers such as  $C_{1-30}$  alkyl acrylates,  $C_{1-30}$  alkyl methacrylates, and vinyl acetate.

These acrylic homopolymers or copolymers may also be cross-linked.--

Page 5, replace the first paragraph as follows:

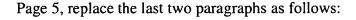


--There may be mentioned, by way of examples of such polymers, those marketed by GOODRICH under the names Carbopol® 940, Carbopol® 941, Carbopol® 980, Carbopol® 981, Carbopol® ETD 2001, Carbopol® ETD 2050, Carbopol® 2984, Carbopol® 5984 and Carbopol® Ultrez 10, by 3V under the names Synthalen® K, Synthalen® L and Synthalen® MS, and by PROTEX under the names Modarez® V1250 PX, Modarez® V2000 PX, Viscaron® A1600 PE and Viscaron® A700 PE.--

Page 5, replace the third paragraph as follows:



--Such copolymers are marketed, for example, by GOODRICH under the names Carbopol<sup>®</sup> 1342, Carbopol<sup>®</sup> 1382, Pemulen<sup>®</sup> TR1 and Pemulen<sup>®</sup> TR2.--





--For the production of a satisfactory thickening effect, that is to say for the production of a viscosity which is at least equal to 50 deviation units on a RHEOMAT 180 viscometer, rotor 3 (25°C, reading after 30 seconds), that is about 1.9 Pa.s, this first thickening constituent (b) should be combined with a second constituent (c) performing the role of co-thickening agent.

This co-thickening agent is chosen from thickening polymers different from the thickening agents (b), excluding the cellulosic thickening polymers.--

Page 6, replace the first through fourth paragraphs as follows:



--According to a preferred embodiment of the present invention, this co-thickening agent (c) is a polymer of non-cellulosic natural origin.

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There may be mentioned by way of thickening polymers of natural origin which can be used as co-thickening agents guar, xanthan, scleroglucan, gelan, rhamsan and karaya gums, alginates, maltodextrin, starch and its derivatives, and carob flour, and the use in particular of guar gums such as that marketed under the name Jaguar<sup>®</sup> HP105 by RHODIA, or the xanthan gums such as those marketed under the names Keltrol<sup>®</sup> and Kelza<sup>®</sup> by MONSANTO, or under the name Rhodopol<sup>®</sup> by RHODIA, is preferred.

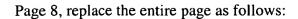
As synthetic co-thickening agents, there may be used, for example, polyethylene glycols and their derivatives, as well as the homopolymers and copolymers, cross-linked or otherwise, based on acrylamide or methacrylamide such as the homopolymers of 2-acrylamido-2-methylpropane sulphonic acid, the copolymers of acrylamide or methacrylamide and of methacryloyloxyethyltrimethylammonium chloride, or the copolymers of acrylamide and 2-acrylamido-2-methylpropanesulphonic acid.

The concentration of the co-thickening agent in the cosmetic compositions according to the present invention is preferably between 0.05 and 2% by weight, and in particular between 0.1 and 1% by weight, relative to the total weight of the final composition.--

Page 7, replace the first full paragraph as follows:



--The cosmetic compositions of the present invention may contain, in addition, other ingredients commonly used in the cosmetic field and appropriate for the application envisaged. There may be mentioned, by way of example of such additives, for example colorants, pigments, perfumes, silicones which are volatile or otherwise, organomodified or otherwise, sunscreens, anionic, nonionic, cationic or amphoteric fixing polymers, different from those described above (such as for example polyvinylpyrrolidone), as long as they do not adversely affect the advantageous properties of the cosmetic compositions of the present invention.--





	A	В	C
Fixing polymer <sup>a)</sup>	0.2	0.2	0.2
Acrylic thickening polymer <sup>b)</sup>	1.4	1.4	1.4
Noncellulosic co-thickening agent <sup>c)</sup>	0.3		
Cellulosic co-thickening agent <sup>d)</sup>		0.3	
Silicone <sup>e)</sup>	0.2	0.2	0.2
Ethanol at 96°	17.2	17.2	17.2
2-Amino-2-methyl- 1-propanol	qs pH 7.5	qs pH 7.5	qs pH 7.5
Water	qs 100	qs 100	qs 100%
Viscosity <sup>f)</sup>	2.540	1.480	1.535

- a) Ex-SDR-26<sup>®</sup>, branched block copolymer of butyl acrylate and acrylic and methacrylic acids which is marketed by GOODRICH
- b) Carbopol<sup>®</sup> Ultrez 10, poly(acrylic acid) marketed by GOODRICH
- c) Jaguar ® HP 105, guar gum marketed by RHODIA
- d) Klucel EF<sup>®</sup>, hydroxypropyl cellulose (on average 22 mol of ethylene oxide and 23 mol of propylene oxide) marketed by AQUALON
- e) Mirasil® DMCO, polydimethylsiloxane marketed by RHODIA--

Page 9, replace the last two paragraphs as follows:

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--This example shows that the hairstyling gel A according to the present invention possesses a substantially higher viscosity than the comparative hairstyling gel C free of co-thickening agent and containing, as sole thickening agent, an acrylic thickening polymer (Carbopol<sup>®</sup> Ultrez 10).

The comparison of the hairstyling gel A according to the present invention with the comparative hairstyling gel B containing an acrylic thickening polymer (Carbopol Ultrez 10) combined with a cellulosic co-thickening agent (Klucel shows that the replacement of a cellulosic co-thickening agent with a non-cellulosic co-thickening agent spectacularly improves the viscosity of the hairstyling gel.--